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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/659,194	09/09/2003	Satoru Oishi	1232-5145	1232-5145 5596	
27123	7590 09/07/2004		EXAMINER		
MORGAN & FINNEGAN, L.L.P. 3 WORLD FINANCIAL CENTER			NGUYEN, HUNG		
NEW YORK, NY 10281-2101			ART UNIT	PAPER NUMBER	
			2851	· · · · · · · · · · · · · · · · · · ·	
			DATE MAILED: 09/07/2004	DATE MAILED: 09/07/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	1		14.13		
	Application No.	Applicant(s)			
	10/659,194	OISHI, SATORU			
Office Action Summary	Examiner	Art Unit			
	Hung Henry V Nguyen	2851			
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the	correspondence add	iress		
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailir earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be tirely within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this cor (35 U.S.C. § 133).			
Status					
Responsive to communication(s) filed on <u>09 S</u> This action is FINAL . 2b) ☑ This action is application is in condition for allowed closed in accordance with the practice under	s action is non-final. ance except for formal matters, pro		merits is		
Disposition of Claims					
4) ☐ Claim(s) 1-17 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-17 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	awn from consideration.				
Application Papers					
9) The specification is objected to by the Examin 10) The drawing(s) filed on <u>09 September 2003</u> is. Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	fare: a) $⊠$ accepted or b) $□$ object of a drawing(s) be held in abeyance. Section is required if the drawing(s) is obtained.	e 37 CFR 1.85(a). jected to. See 37 CFI	R 1.121(d).		
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate	-152)		

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DETAILED ACTION

Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 2. Claims 3-5 and 16 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

As to claims 3-5, the recitations of "the alignment mark <u>may</u> improve" or "acquiring step <u>may</u> reduce" or "acquiring step <u>may</u> approach a predetermined interval" render the claims indefinite since it has been held that the recitation of a device "may" perform a function is not a positive limitation and it does not constitute a limitation in any patentable sense.

Claim 16 recites the limitations "the value" and "the device" in line 6. There are insufficient antecedent basis for these limitations in the claim.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

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(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

4. Claims 1-17 are rejected under 35 U.S.C. 102(e) as being anticipated by Okita et al (U.S.Pat. 6,538,721).

With respect to claim 16, Okita discloses an exposure apparatus for transferring a predetermined pattern form on a reticle (M) onto a substrate (W) and comprising all basic features of the instant claims such as: a surface position detecting means (51-58) for acquiring information of an alignment mark formed on the substrate (see figure 2) by changing a value of a device parameter, the obtained information being used for an alignment between the mask and the substrate (see col.6, lines 37 thru col.7 line 63) and an optimization part (27, 90) for setting the value of the device parameters to the exposure apparatus based on the information obtained (see col.7, lines 64 thru col.8 line 44). Okita further teaches the alignment mark formed on the substrate including plural elements arranged at a desired interval (see figure 2a-2c) and the device parameters including an arrangement of sample shot for an advance global alignment, illumination mode, exposure line width, mark width, mark line width and a width of a process window (see figures 4 and 5; see col.13, lines 35).

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As to claims 1-15, the corresponding method claims are seen inherent teachings in existence of the above apparatus.

With respect to claim 17, even though Okita does not expressly disclose a program for enabling a computer executing the exposure method as claimed but this feature is seen to be an inherent teaching of the exposure apparatus of Okita since a CPU (90) for performing the exposure apparatus is disclosed and it is apparent that some type of program must be present for the CPU to function as intended.

Prior Art Made of Record

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Morimoto (U.S. 2003/0059691 A1); Kasuga (U.S.Pat. 5,656,402) and Ina et al (U.S.Pat. 6,639,677) discloses an exposure apparatus and method for automatically measuring shot compensation parameters and providing precision alignment between the reticle and the substrate in accordance with the shot compensation parameters.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hung Henry V Nguyen whose telephone number is 571-272-2124. The examiner can normally be reached on Monday-Friday (First Friday off).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Judy Nguyen can be reached on 571-272-2258. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Hung Henry V Nguyen Primary Examiner

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hvn 89/2/04